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**The Ohio State University
Agricultural Technical Institute**

A. II Faculty
Annual Report of Activities
1

1998

1998 ACTIVITY REPORT

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HIGHLIGHTS

TEACHING

A. COURSES OFFERED

QUARTERS	COURSES	ENROLLMENT	CREDIT HOURS
WINTER	112	3,403	11,914
SPRING	114	2,505	8,717
SUMMER	32	492	1,857
AUTUMN	118	4,423	14,011

B. CURRICULUM DEVELOPMENT

The most significant development was the completion of the general studies portion of the Associate of Applied Science curriculum. After 2 years of review by faculty and industry advisory committees, a new core of general studies requirements were approved effective AU 2000. Collaboration with other colleges continued with a formal agreement with the Ashtabula Campus of Kent State University; program articulations with Bowling Green State University and Cuyahoga Community College in process, and a special shared program with Wayne College. The later is a unique credit program for employees of the Gerstenslager Company with courses taught at the Gerstenslager site. Linkages with industry resulted in two special programs being approved in 1998 - a Custom Applicator option in Crop Production and Management and a Hydraulics Service and Repair certificate in the Fluid Power Technology. Futuristically, some faculty developed web-based activities for integration into their courses.

C. OUTREACH ACTIVITY

Ohio State ATI's Continuing Education (CE) program continued to serve the community, state, and nation through credit and non-credit workshops and seminars. These workshops/seminars range from the traditional classroom presentations to teleconferences for wide ranging audiences from traditional agriculture groups to manufacturing companies and small businesses.

Several activities were on-going from previous years: The IAM program continued to meet a major need for educated personnel to maintain hydraulics equipment. The Rexroth, Seaman and Monsanto employee development activities continued with several courses delivered in 1998. The Case project stalled due to fiscal difficulties and reorganization within the Case Corporation. In 1998, ATI hosted the Program Success Summit/Technology Update for high school vocational agriculture educators.

There were two major new initiatives: A relationship with NationsRent was established to provide education for entering employees though the Institute's degree programs and training to upgrade current employees. Plans were developed for Ohio State ATI to be the testing site for the ALCA Certified Landscape Technician program.

A total of 30 different faculty and staff members were involved in one or more CE activities ranging from traditional extension presentations, workforce development classes, and the technical update for teachers.

RESEARCH AND SCHOLARLY ACTIVITIES

The research/scholarly activity at Ohio State ATI is applied to the agricultural and horticultural industries or to the teaching-learning process and is measured in numbers of publications and presentations.

A. PUBLICATIONS

Twenty-one (21) faculty members produced 48 publications including 2 books, 3 chapters in books, 8 bulletins and technical reports, 11 peer-reviewed journal articles, 9 editor-reviewed journal articles, 9 reviews and abstracts and 6 papers in proceedings. Two faculty members were editors in 1998 and 5 serve on editorial/publication committees/boards and another 11 are reviewers for journals and books.

B. PRESENTATIONS

In 1998, 13 Ohio State ATI faculty made 31 presentations to professional and industry groups. Significant in these numbers is that one faculty member made 9 presentations and another made 6 presentations.

SERVICE

The Ohio State ATI faculty are always recognized for their service to the profession and community. In 1998, 20 faculty members provided service to professional groups and 15 served trade associations and the community. In addition, 10 served on college committees and 3 were members of university bodies. Nineteen (19) served as consultants to professional organizations, industry and businesses and individuals.

GRANTS AND CONTRACTS

Most of the 1998 grant and contract activity conducted by the Ohio State ATI was in the form of materials and supplies needed to conduct research or field trials.

Several externally funded projects continued as part of the multiyear funding:

Upward Bound - to motivate and assist high school students to prepare for college;

Program EXCEL - supports currently enrolled student with additional counseling, tutoring and other forms of learning assistance to help them succeed in college;

Tech Prep - to develop an articulated curriculum with high school horticulture programs and ATI. A special activity of this project in 1998 was for selected high school students to enroll in an industry-developed course and receive academic credit from ATI upon their enrollment at ATI.

INTERNATIONAL ACTIVITIES

There were several faculty involved in international activity in 1998. Three (3) faculty members traveled to other countries--one as a consultant, another led a study tour and the third presented a paper. Two faculty members worked with visiting scientists and one made contacts for a visit in 1999 to discuss a possible exchange program.

AWARDS AND HONORS

Eight (8) faculty received special recognition during 1998

Wesley Greene received the National Institute for Staff and Organizational Development Excellence Award. He also received the College of Food, Agricultural, and Environmental Sciences Teaching Award.

Dan Voltz received the Ohio State ATI Distinguished Teaching Award

Royce Thornton was named the Ohio State ATI Outstanding Adviser. He also received the College of Food, Agricultural, and Environmental Sciences Outstanding Adviser Award.

Jean Opliger was recognized by the National Association for Developmental Education as a Founding Member.

Greg Gordon was recognized as a Staff Accredited Instructor by the Education Institute of the Fluid Power Society.

Jim Carr was named the Outstanding Educator in the Great Lakes Region of the Associated Schools of Construction.

Mike Fulton was recognized for his Professional Excellence to the Ohio Turfgrass Industry by the Ohio Turfgrass Foundation.

Ken Cochran received special recognition for his service to the Akron Garden Club when the club established The Ken Cochran Internship Scholarship.

FACULTY BY RANK

Professor

Gary Anderson

Associate Professor

Roger Baur

Michael Borger

Ronald Borton

Thomas Bowman

Michael Fulton

Wesley Greene

Kent Hammond

Mark Headings

Linda Houston

Philip Kroll

Robert McMahon

Arnold Mokma

David Munn

Steven Neal

Jean Opliger

Sha Rahnema

Samuel Woods

Allen Zimmerman

Tommy Zimmerman

Assistant Professor

Kenneth Cochran

Richard Dobec

Gregory Gordon

Theresa Lanker

Jeffery Lucas

Shirley Lunsford

Eugene Malinowski

Emil Miller

Lynn Schramm

D. E. Stewart

Royce Thornton

Daniel Voltz

David Willoughby

Karen Wimbush

Instructor

James Carr

Ella Copeland

Frank Jennings

Robert Rupp

Associate Professor/Director Emeritus

Daniel Garrison

Associate Professor Emeritus

George Kreps

Richard Niklas

Clyde Opliger

John Roberts

Charles Stock

Assistant Professor Emeritus

Frederick Lendrum

Sigel Stocker

I. TEACHING

A. COURSES OFFERED

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B. CURRICULUM DEVELOPMENT/INITIATIVES

Course Development - The Ohio State ATI faculty carry heavy teaching loads (ie 12+ credit and up to 20 contact hours per quarter) and make considerable efforts to improve their effectiveness. The primary focus in curriculum development is staying abreast of the state-of-the-art subject matter related to the courses and using more effective methods to teach the material.

Several faculty initiated activities in their courses to require more student participation:

L. Houston continued to refine the student developed course expectations activity begun as part of the Student Centered Learning Initiative under Project Reinvent.

K. Wimbush initiated an activity of having all students prepare responses to questions at the beginning of the quarter that then used throughout the quarter as the lessons occur.

D. Stewart includes team projects for class presentations and out-of-class community service as techniques to increase "student ownership" of the class.

A few faculty began using the Internet and World-Wide-Web in their instruction.

B. Anderson placed the syllabus on the web along with links to related educational sites.

J. Carr developed 2 web-based courses with the syllabus, outlines and assignments on web pages. Students complete assignments on-line and e-mail responses to Mr. Carr. This site is listed as a Best Practice by University Technology Services and is listed on the World Lecture Hall site of The University of Texas.

S. Neal integrated web-based information into a course requiring students to search various sites and making recommendations based on the information found.

R. Thornton used e-mail and the Internet in one course by requiring that all paper/presentations have a least one reference from the WWW and all correspondence with students (grades, etc.) was via e-mail.

The Orientation course with 12 different instructors requires one assignment to be completed by e-mail. This ensures that all students activate their e-mail accounts and learn the basics of sending and receiving a message.

R. Thornton conducted the third California Dairy Industry study and Western Dairy Management Conference tour April 7-14. This tour was open to ATI students and dairy industry people.

Curriculum Review - The faculty continued the major review of the Associate of Applied Science degree curricula. In December, a revised core of general studies course requirements was adopted. The process will now involve all industry advisory committees in developing the technical studies component for implementation by Autumn 2000.

Prison Program - The first full year of the horticulture certificate program at the Grafton Correctional Institute was offered under the revised state guidelines.

Linkages with other colleges - Collaboration with other colleges continued and took several different approaches:

A. Mokma and K. Sayers met with Wayne College to jointly offer a company sponsored credit program at The Gerstenslager Company. This is a year-long program for selected employees who are released from their work assignments three days each week to be full time students (enroll in 12 or more hours). Faculty from ATI and Wayne College teach the courses and students are enrolled in both colleges simultaneously.

B. Anderson and A. Mokma met with officials from Kent State University to develop a collaborative agreement with the Ashtabula Campus. This plan is in the final stages of approval and was effective immediately. A few students are already planning to enroll during the spring semester at Kent-Ashtabula.

J. Carr met with Bowling Green State University concerning the development of an Associate of Science Degree in construction at ATI that would transfer into the BGSU baccalaureate degree Construction Technology major. A suggested curriculum plan was developed and is being reviewed by BGSU.

A. Mokma met with Cuyahoga Community College concerning their interest in course transfer between the CCC Plant Science program and the ATI horticulture programs. The courses involved will be evaluated by ATI in 1999.

A. Mokma and S. Rahnema worked with Wayne College (Akron U) and Stark State College of Technology on a collaborative program in environmental science. This would involve courses being taught at the 3 colleges to take advantage of each college's expertise and all courses would apply to the degree requirements at all colleges. These discussions were dropped when there was an administrative change at Wayne College.

Linkages with industry - Several innovative programmatic activities were initiated in 1998:

G. Gordon developed a one-year certificate (45 credit) program in Fluid Power with considerable input from the industry advisory committee over the past 2 years. In May 1998, the Institute faculty approved the proposal. It received University approval in November 1998 and was submitted to the Ohio Board of Regents for final approval.

S. Woods worked with the Crop Production and Management Advisory committee to develop an Applicator Specialist option that was formally approved by the Academic Affairs Committee during

1998. A unique educational experience is built into this program with practicum to be conducted at Agri-Mark in Smithville. Students will be able to use state-of-the-art equipment and facilities that are beyond the scope and affordability of ATI.

A. Mokma and K. Sayers developed a company sponsored credit program at The Gerstenslager Company in cooperation with Wayne College (see Linkages with other colleges above).

C. Outreach Activities (Continuing Education Activity)

The primary emphasis on the Outreach Activities of the Ohio State ATI faculty is on workforce development. This emphasis has created some unique opportunities for the Institute and faculty to be creative in meeting the needs of a different audience.

The Industrial Automated Maintenance (non-credit certificate) program continued to receive industry support with enrollment increases over the previous year. Local industry experts teach most of the courses. However, two faculty members are involved in this program: G. Gordon who made many promotional visits during the year and J. Opliger who taught "Communicating on the Job" during Spring quarter.

The Rexroth Mobile Hydraulics program of upgrading all employees continued with E. Miller the faculty member delivering most of the instruction. In 1998, he taught 11 different courses and over 90 different sections in mathematics:

- Basic Linear Instruments. Repeated 9 Times; 78 Students.
- Fixed Gages. Repeated 9 Times; 77 Students.
- Surface Plate Equipment And Methods. Repeated 9 Times; 79 Students.
- Dial Indicators. Repeated 9 Times; 79 Students.
- Pneumatic Gaging. Repeated 9 Times; 77 Students.
- Introduction To Engineering Drawings. Repeated 8 Times; 67 Students.
- Multiview Drawings. Repeated 8 Times; 70 Students.
- Sectional Views. Repeated 8 Times; 71 Students.
- Dimensions And Tolerances, Part One. Repeated 8 Times; 68 Students.
- Dimensions And Tolerances, Part Two. Repeated 8 Times; 69 Students.
- Part Feature Specifications. Repeated 8 Times; 71 Students.

The Seaman Corporation Partners in Progress program continued with several faculty involved with various courses:

- E. Miller: Basic Concepts in Mathematics for the Workplace. 10 students.
- J. Opliger: Dealing with People on the Job, January 20
- Fast Track Teams, January 30, 1998; repeated March 23
- Coaching for Optimal Performance, March 24
- How to Plan for Personal Financial Security, March 16; repeated March 27
- Zenger Miller Supervisor Leadership, March 2 - April 27
- Learning to Learn, July 13-14; repeated August 26-27
- Growing Relationships, October 28, November 2, 4, 11
- Express Yourself, November 19-20
- Read and Write Audit, December 28

A. Zimmerman: Problem Solving, a quarter-long course, Spring Quarter; 9 participants.

J. Opliger also traveled to Bristol, Tennessee to meet with officials of the Seaman plant to develop a learning program in that facility.

The Monsanto Dairy Production and Farm Management Training W. Greene and R. Thornton conducted a week-long program for new employees June 7-12; 8 participants.

The Case Dealership Program stalled in 1998 due to fiscal difficulties and corporate restructuring. The Case liaison continues to assure ATI that the courses are still wanted and delivery will begin upon completion of the corporate reorganization.

ATI hosted the Program Success Summit/Technology Update, a two-day program for agricultural educators, on the ATI campus June 16-17. Several faculty and staff made presentations including G. Anderson, B. Aylsworth, D. Bradshaw, J. Carr, G. Gordon, M. Hopkins, G. Knowlton, T. Lanker, C. Lepold, J. Lucas, J. Roberts, T. Zimmerman,

Discussions were held with NationsRent to develop a credit/degree program for preparing potential employees and a non-credit program for upgrading current employees. A. Mokma, G. Gordon, L. Schramm, and K. Sayers met several times with the Humans Resources Training Coordinator to develop this program. The plan stalled late in the year to allow NationsRent to complete their employee development plan.

Plans were developed with the Ohio Nursery and Landscape Association and Ohio Landscapers Association to establish Ohio State ATI as the site for the Associated Landscape Contractors of America's certification testing. K. Hammond, K. Sayers, D. Voltz, and D. Willoughby are leading this effort for the first Ohio CLT test to be conducted in August 2000.

Several faculty made presentations to industry groups:

J. Carr: "Basic Superintendent and Residential Construction Training," Builder Council, Building Industry Association of Central Ohio (Columbus)

K. Cochran: Co-directed - Deciduous Tree School; taught seminar "The Clematis World."

G. Gordon: Customized Basic Hydraulics course for Dover Hydraulics as an in-plant program

A two-day short course on hydraulics for the Ohio Department of Natural Resources, February; 22 participants.

M. Headings: "Labels/MSDS/Pesticide Toxicity and WPS", Ohio Agribusiness Association Custom Applicator Academy, August 31; 31 participants.

"Fall Management of Honey Bees," Tri-County Beekeepers Association, September 30.

D. Munn: "Field Conditions," Ohio Agribusiness Association Custom Applicator Academy, September 3; 30 participants.

S. Neal: "Swine Reproduction and A.I.," Ohio Pork Congress, February 20; 6 sessions, approximately 500 participants.

J. Opliger: F. J. Designs - Developed and taught a workshop on Listening.

Gerstenslager - Developing Written Expression, September 21-November 25.

R. Thornton: OSUE Dairy Farm Employee Short Course, March 24-26; 3 session, 16 participants.

K. Wimbush: "Equine Shipped Semen," Horse Update, November; approximately 16 Ohio horsemen.

S. Woods: Organized Ohio Agribusiness Association Custom Applicator Academy, September; 30 participants.

Other CE activities included continued participation in Enterprise Ohio (an OBR workforce development effort), and programs for Frito-Lay, LuK, Inc., Plastech, Empire Plow and Tusco Display.

II. RESEARCH AND SCHOLARLY ACTIVITIES

A. Publications

1. Books and Monographs

Miller, Emil. Introduction to Technical Mathematics, Ohio State ATI, 1998.

2. Edited Books

Houston, Linda, ed. Current Readings on Agriculture, Columbus, OH: Curriculum Materials Service, 1998.

3. Chapters in Edited Books

Houston, Linda. "Accommodations for Learning Differences in the English Classroom." Teaching Real Writing, 3. Background Readings ed. Susan Naomi Bernstein. Boston: Bedford Books, 1998.

Houston, Linda. "Budgeting and Politics: Keeping the Writing Center Alive" Administrative Problem-solving for Writing Programs and Writing Centers. Linda Myers, ed. Urbana, IL: NCTE, (to be published, 1999).

Zimmerman, Tom. "Erosion and Erosion Control," a Natural Resources reference book, Lewis Publishers.

4. Bulletins and Technical Reports

Anderson, Gary A. "A New Look at Combination Planters," The Buckeye, September

Barhorst, M. J., K. M. Irvin, S. J. Moeller and S. M. Neal. The estimation of maternal and individual heterosis in Yorkshire, Large White and Hampshire swine and their crosses. Ohio Swine Day Proceedings.

Bennett-Wimbush, K. "The Basics of Jumping," University of Missouri Extension Publication (pending addition of photographs)

Cochran, K., "The Marketing Potential of Ginkgo biloba in the United States," Ornamental Plants Annual Reports and Research Reviews, Special Circular 157, pp. 49-53

Cochran, K. and W. Grabczewski, "The Greening of Poland's Nurseries", Ornamental Plants Annual Reports and Research Reviews, Special Circular 157, pp. 45-48.

Draper, E., J. Chatfield, K. Cochran, P. Bristol and D. Allen, "Comprehensive Aesthetic Evaluations of Crabapples at Secrest Arboretum in Wooster: 1993-1997". Ornamental Plants Annual Reports and Research Reviews. Special Circular 157 pp. 83-94

Isler, B., K. M. Irvin and S. M. Neal. Investigation of the estrogen receptor gene and its association with reproductive tract traits in swine. Ohio Swine Day Proceedings.

Ross, J.E., S.C. Loerch, and M.L. Borger. Poultry Manure as a Protein and Mineral Supplement in High Concentrate Diets Limit-Fed to Gestating and Lactating Beef Cows. OARDC Animal Science bulletin. (Accepted for publication)

5. Peer-Reviewed Journal Articles

Baur, R. and A. Zimmerman. Readability of feature articles in trade periodicals. NACTA Journal, 42(2):33-36.

Bennett-Wimbush, K. 1998. A Preliminary Study of the Efficacy of Fluphenazine as a Treatment for Fescue Toxicosis in Gravid Pony Mares. J. Equine Vet. Sci. 18(3):169-174.

Bennett-Wimbush, K., W.E. Loch, H. Plata-Madrid, T. Evans. 1998. The effects of perphenazine and bromocriptine on follicular dynamics and endocrine profiles in anestrus pony mares. Theriogenology, 49: 717-733.

Irvin, K.M., G.A. Peterson and S.M. Neal. 1998. Response to selection for a sow productivity index in Duroc swine. 6th World Congr. on Genetics Appl. to Livest. Prod. 26:116.

Jennings, F. L. and S. M. Day. "A Clarification of the Algebraic Method of Reciprocal Cost Allocation," The Accounting Educators' Journal, February, 1998.

Munn, D.A., G. Coffing and G. Sautter. 1998. Response of Corn, Soybean, and Wheat Crops to Fertilizer and Herbicides in Ohio Compared with Low Input Production Practices. *Am. J. of Alternative Agriculture* 13 (No 4): 185-193.

Neal, S.M., K.M. Irvin and G.A. Peterson. 1998. Correlated responses in litter preweaning traits to selection for a sow productivity in Duroc swine. 6th World Congr. on Genetics Appl. to Livest. Prod. 26:123.

Peterson, G.A., K.M. Irvin, S.M. Neal and N.D. Stewart. 1998. The effects of litter size, sex of pig and birth weights on growth patterns in Duroc, Landrace and crossbred swine. 6th World Congr. on Genetics Appl. to Livest. Prod. 25:141.

Thomas, M.G., K. Bennett-Wimbush, DH Keisler, WE Loch. 1998. Plasma concentrations of Growth Hormone and Insulin-like Growth Factor-1 in prepuberal Quarter Horses and Ponies. *J. Equine Vet. Sci.* 18(1):52-55.

Willoughby, D. and A. Zimmerman. Personality types of golf course superintendents and students graduating in turfgrass management. *NACTA Journal*, 42(4):43-51.

Zimmerman, A. Requirements for successful teams. *ATEA Journal*, 25(4):6-8.

6. Editor-Reviewed Journal Articles

Bennett-Wimbush, K. 1998. To Ship or Not To Ship...That is the Question. *Pony of Americas--Official Publication*. 43(6):11-12.

Lanker, T. "In Training: Interns Offer Assistance, Gain Experience on the Job," *Super Floral*, October 1998.

Munn, D.A., 1998. Eugene O. McLean: Scion of C.E. Marshall. *J. or Nat. Resource Life. Sci. Educ.* 27:129-130.

Willoughby, D. A. Elements and Issues of Greens Renovation, Grounds Maintenance, Special Section Golf Course Edition, January 1998, pp. G1 and G4

Willoughby, D. A. Aeration Spells Relief for Compacted Turf, Grounds Maintenance, Cover Featured Article, November 1998, pp. 14ff

Willoughby, D. A. Personality Survey Reveals Superintendent "Types," *Golf Course Management*, Research Section, November 1998, pp. 71-74.

Zimmerman, A. Keeping technical education "higher" education. *ATEA Journal*, 25(4):30.

Zimmerman, A. Let's take a new look at ventilation materials. *Building Material Retailer*. 15(2):NE10-12.

Zimmerman, A. Why the lag in home ventilation? *Building Material Retailer*. 15(1):LS6.

7. Reviews and Abstracts

Bennett-Wimbush, K. 1998. The effect of 2-bromo-ergocriptine on sexual behavior, seminal characteristics and plasma LH in light horse stallions. J. Anim. Sci. Vol. 76, Suppl. 1 p. 237.

Borger, M.L., L.H. Anderson, and W.A. Greene. Synchronization of estrus in postpartum beef cows using GNRH and prostaglandin F₂ JAS 70 Suppl. 1 p.245.

Borton, R. and S. Rahnema. "Carcass Characteristics of Swine Fed Potato Chip Scraps", American Society of Animal Science, 1998 Joint Meeting Abstracts. Volume 76, Supplement 1, p.147, 1998

Headings, Mark E. 1998. Student-Prepared Collections as a Tool to Enhance Learning in the Biological Sciences, NACTA Journal, Vol. 42, No. 2; p. 7

Neal, S.M. and K.M. Irvin. 1998. Components of reproduction in Large White, Yorkshire and reciprocal cross sows. J. Anim. Sci. 76. Suppl. 1.

Rahnema, S, R. Borton and T. Meek. 1998. "Effect of Consumption of Potato Chip Scraps on the performance of finishing pigs". American Society of Animal Science. Journal of Animal Science Sectional Abstracts, Supplement 2, p.56.

Rahnema, S, R. Borton and T. Meek. 1998. "Effect of Consumption of Potato Chip Scraps on the performance of nursery pigs". American Society of Animal Science. Journal of Animal Science Sectional Abstracts, Supplement 2, p.62.

Thornton, R.B., W.A. Greene, D.R. Redman, and J.E. Fox. Evaluation of a decoquinate compound for ameliorating natural infections of Cryptosporidia spp. in neonatal dairy calves. J. Dairy Sci. Vol 81, suppl. 1, p.48.

Woods, S.J., 1998. Twenty years of agronomic program development from birth to maturity. ASA Abstracts. pp.5

8. Papers in Proceedings

Anderson Schramm, Lynn. 1999. "Assessing Market Factors Using the Worldwide Web - A Distance Learning Pilot Study of Agricultural Equipment Dealers," Midwest Business Association Annual Conference Proceedings, (accepted for publication)

Ryan, P., K. Bennett-Wimbush, WE Loch, W. Vaala, C. Bagnell. 1998. Effects of Fescue Toxicosis and Fluphenazine on Relaxin Concentrations in Pregnant Pony Mares. 44th Annual American Association of Equine practitioners Convention.

Webster, T.M., J. Cardina, and S.J. Woods. 1999. Spatial and temporal expansion patterns of hemp dogbane (*Apocynum cannabinum*) patches. Proc. South. Weed Sci. Soc 52: (in press).

Zimmerman, A. Applications of personality types and the MBTI in a capstone problem solving course. Proceedings: Counter Attack: Rising to the Challenges to Education - The Role of Psychological Type, Center for Applications of Psychological Type, Gainesville, pp. 103-111.

Zimmerman, A. Designing and building an energy efficient garage apartment. ASAE-NABEC Paper No. 9802. Ninth Annual Northeast Agricultural/ Biological Engineering Conference, Halifax, Nova Scotia.

Zimmerman, A. The continuing evolution of a student-centered, journal-based orientation course. Conference Proceedings, Seventeenth Annual Conference on the Freshman Year Experience, University of South Carolina, Columbia, pp.175-6

9. Editorships

L. Houston: Editor, Ohio Association of Two-Year Colleges Journal.

T. Lanker: technical editor, Retailing Flowers Profitable. Lebanon, PA: Royer Publishing, 1998

Many faculty are reviewers

J. Carr: reviewed several books for Home Builders Press.

G. Gordon: reviewer, Transactions of the ASAE.

W. Greene: reviewed Applied Animal Reproduction, J. Bearden and J. Fuquay as Prentice Hall prepares the fifth edition in 2000.

K. Hammond: reviewed the ONLA OCNT Landscape Installer's Manual and the international ALCA CLT Training Manual.

M. Headings: Member, Publications Committee, NACTA Journal

reviewed Fundamentals of Entomology, 4th edition, for Prentice Hall Publications

L. Houston: Proposal Reviewer, National Association for Developmental Education Conference

S. Lunsford: Member, Editorial Board, Ohio Association of Two-Year Colleges Journal

A. Mokma: Member, Editorial Board, Ohio Association of Two-Year Colleges Journal

D. Munn: reviewed Beneficial Uses of Land Applied Ag Ind Waste and Municipal Byproducts. Soil Science Society of America

- S. Neal: Manuscript Reviewer, "Journal of Animal Science,"
 Manuscript Reviewer, "The Professional Animal Scientist,"
 Proposal Reviewer, USDA Reproductive Biology of Animals Program
- J. Opliger: Member, Editorial Board, The Journal of Teaching and Learning
- K. Wimbush: reviewer, Journal of Equine Veterinary Science
- A. Zimmerman: Member, Publications Committee, National Association of Colleges
 and Teachers of Agriculture
 Member, Editorial Committee, American Technical Education
 Association
 Member, Editorial Board, Ohio Association of Two-Year Colleges
 Journal
 Member, Editorial Board, Teaching Academic Survival Skills
- T. Zimmerman: reviewer, Soil Science Society Journal and Journal of Natural
 Resources and Life Sciences Education

B. Presentations

G. Anderson gave 9 invited presentations:

Quailcrest Garden Symposium (Millersburg) "Classic Garden Roses," January 29

Ohio Association of Garden Clubs, Exhibitor and Judge's School (Columbus),
 "Evaluation of Basic Floral Design," April 21

Roscoe Village Lecture Series (Coshocton) "Classic Roses--Caring for Garden
 Royalty," June 3

Mohican Gardens Old Rose Symposium (Mohicanville), "Classic Roses," June 10

Garden Forum of Greater Akron (Akron) "Creative Floral Design," July 9

Appalachian Herb Festival (Cottageville, WV) "Cottage Gardening" and "Using Herbs in
 the Landscape," September 26

Fellows Riverside Gardens (Canfield) "Flowers-a Celebration," October 14

Secret Arboretum Clematis Symposium (Wooster) "Using Clematis in the Landscape,"
 October 17

East Central Ohio Flower Growers (Wilmot) "Using Perennials in the Landscape,"
 November 3

Bargar, R., M. Wilson Alcock, and A. Zimmerman: "Moving type into schools," Association
 for Psychological Type-Great Lakes Regional Conference, Cincinnati

- M. Borger: "Carcass Parameters for contests in Beef, Pork and Lamb," Tri-County Northeast Ohio Livestock
- E. Copeland and S. Lunsford: "Exploring Resources in Cyberspace: A Classroom/Library Partnership," OADE (Ohio Association for Developmental Education) 15th Annual Conference, Marietta, October 22.
- M. Headings: "Student-Prepared Collections as a Tool to Enhance Learning in the Biological Sciences," Wenatchee, WA June 23.
- L. Houston presented 6 invited papers:
- "Student-Centered Learning: Building Self-Esteem in a Developmental English Class," National Association for Developmental Education (NADE) Conference, Atlanta, March 4-6.
 - "Student-Centered Learning: Empowering Students Through a Changing Paradigm," Conference on College Composition and Communication, Chicago, April 4 (presented with five colleagues - SCLI faculty).
 - "TYCA Tips for Writing Successful CCCC's Program Proposals," Conference on College Composition and Communication, Chicago, April 4 (Part of a panel).
 - "TYCA: Visions of the Two-Year College in the 21st Century," (workshop) CCCC, Chicago, April 4.
 - "A Return to the Personal: Student-Centered Learning in a Technology-Centered World," TYCA-Midwest, St. Paul, MN. October 1-3.
 - "Building Self-Esteem in a Developmental Writing Class," Ohio Association for Developmental Education Conference, Marietta, October 21-23.
- S. Lunsford and L. Houston: "EECAP Portfolio Assessment," EECAP (Early English Composition Assessment Program) for Tech Prep Consortium. October 8.
- R. McMahon: "Greenhouse internships," Cleveland Flower Growers Assn. (Avon)
- E. Miller: "Mathematical Techniques for Grain Warehouse Inspection: an in-depth Look," Association of American Warehouse Control Officials, Reynoldsburg, July 27.
- J. Opliger: keynote speaker, ABLE Directors' Meeting, Ohio Department of Education, Columbus, May.
- "Developing Successful Workforce Development Program," CAMP Forum for Manufacturers, Canton and Wooster, June.
 - "Developing Learning Partnerships for Business and Industry," Ohio Association for Developmental Education, Marietta, October.

- S. Rahnema: "Potato chip scraps as a source of energy in the diet of nursery pigs," RCOSA seminar, April 17.
- D. Voltz: "Turfgrass Disease Etiology," Northern Ohio Golf Course Superintendents Association, Westfield Center, September 21,
- D. Willoughby: "Recap of Personality Survey and Findings: How to Use the Results at the Golf Course," Northern Ohio Golf Course Superintendents (Hudson), November 17
- A. Zimmerman: "A freshman student success course for under-prepared, career-oriented students," Twelfth National Conference on Student Retention, New Orleans.
- "Developing and teaching a student-centered orientation course," Ninth Annual Teaching Academic Survival Skills Conference, Haverhill, MA.
- T. Zimmerman: "Using Constructed Wetlands for Dairy Farm Milkhouse Washwater Disposal & Treatment" ASAE - The Society for the Engineering of Food, Agricultural, and Biological Systems, Orlando, FL, July.

III. SERVICE

A. PROFESSIONAL SERVICE

1. Professional Associations (offices, boards, etc.)

- G. Anderson: State Board, Ohio Association of Garden Clubs.
Retail Short Course Planning Committee, Ohio Florists' Assn.
Decorations Committee, Ohio Florists' Assn.
Retail Extension Committee, Ohio Florists' Assn.
- J. Carr: Trustee, The Home Builders Institute.
- Past chair, Student Chapters Faculty Advisory Board, National Association of HomeBuilders.
- Member, Ohio State Apprenticeship Council
- M. Fulton: Advisory committee, Turf Program of the Ohio Central School Systems, Noble Correctional Institute in Caldwell.
- G. Gordon: Member, American National Standards Institute (ANSI) Fluid Power Systems and Products Standards Committee (B93)
Member, ASAE committees: P207 - Student Branches Committee and PM 51 - Tractor and Implement Hydraulics Committee.

- K. Hammond: Vice-Chairman, ONLA State Certification Committee
Chairman, Ohio CLT Testing Program
Member, 3 ALCA committees
Member, International Landscape Technician Council.
- M. Headings: Member, NACTA Audit Committee
Member, NACTA Publications Committee
- L. Houston: Chair, Task Force for Mentoring Two-Year College Faculty for
Publication in the Profession, TYCA
Chair, Political Affairs Committee, OADE
Referee, Teaching English in the Two-Year College Journal.
- F. Jennings: Member, International Committee, NACTA
- T. Lanker: Student Chapter Advisor, American Institute of Floral Designers
Artist in Residence Committee, American Institute of Floral Designers
Retail Short Course Planning Committee, Ohio Florists' Association
Decorations Committee, Ohio Florists' Association
Retail Extension committee, Ohio Florists' Association
- S. Lunsford: Member, Board of Directors, Ohio Council of International Reading
Association (OCIRA)
Executive Committee, OCIRA
Area 10 Field Representative, OCIRA
Integrating Reading and Writing Committee, OCIRA
Chair, Adult Literacy Committee, OCIRA
Chair, Steering Committee, Wayne County Council of the IRA Annual
Conference moderator, TACCLD (Transition and Communication
Consortium on Learning Disabilities)
- E. Miller: Member, Advisory Committee, The Ohio Mathematics Association of Two-
Year Colleges (Ohio MATYC)
Member, Developmental Mathematics Committee, The American
Mathematics Association of Two-Year Colleges (AMATYC)
Member, Developmental Math SIG Group, The Ohio Association of
Developmental Education (OADE)
- A. Mokma: Consultant-Evaluator, North Central Assn. Of Colleges and Schools
Member, Operating Policy committee, Ohio Board Regents
- D. Munn: Judge, Student Speech Contest and Student Research Symposium,
American Society of Agronomy
- S. Neal: Member, American College of Animal Genetics Board of Directors,
American Registry of Professional Animal Scientists
- L. Schramm: Member, Foundation Committee, Ohio Grocers Association

R. Thornton: Milk Check-off Committee, Ohio Dairy Farmers Federation
Delegate to state convention, Ohio Holstein Association

D. Voltz and D. Willoughby: deputy chairpersons, site development committee for the
ACLA CLT program.

A. Zimmerman: Member, P-205, Engineering Technology and Management
Education Committee, American Society of Agricultural Engineers
(ASAE)
Member/Session Moderator, Program Committee, ASAE-NABEC

T. Zimmerman: Chair, SW-23, Drainage Group, ASAE
Member, SW-232 Water Table management, ASAE
Member, SW-245, Turf & Landscape Irrigation, ASA
Member, Nominating committee, Ohio Section of ASAE.

2. Trade Associations (officer, boards, etc.)

K. Hammond: Member, ALCA Accreditation Team, Columbus State Community
College

3. Discipline related to the Community

M. Borger: President, Wayne County Cattleman's Association

J. Carr: Member, Education Committee, Remodelors' Council of the National
Association of HomeBuilders.

K. Cochran: Developed the Wayne County Master Gardeners program.

W. Greene: Examiner, Wayne County 4-H dairy skillathon

K. Hammond: Vice-Chairman, Wooster Shade Tree Commission

M. Headings: Judge, Mohican District Science Day, Ashland University
Provided information/advice to general public on pest identification
and/or control and other insect, mite, weed, and pesticide-related
questions
"Exploring the Insect World," for the Wayne County Enrichment
Academy for grades 4-6; March 9,11,16,18.
Presentation on Insects, North Street Elementary School, Orrville,
October 8; approximately 80 first to fourth graders.

J. Lucas: Conduct State FFA Agricultural Mechanics Skills contest
Conducted State FFA Small Engines contest
Judge, District FFA Public Speaking contest, Big Walnut High School
Judge, Mechanics projects, Delaware County Junior Fair
Evaluator, Turfgrass program, Clark State Community College

- A. Mokma: Member, Plant Science Advisory Committee, Cuyahoga Community College
Member, Career Pathways Advisory committee, Smithville High School
- D. Munn: Judge, Triway Junior High Science Fair
Judge, Mohican District Science Day, Ashland University
Panelist, Tech Prep Curriculum Design Workshop, Columbus
- S. Rahnema: Judge, Mohican District Science Day, Ashland University
Math course, Upward Bound Program, July 14-18; 15 students.
Presentation on introductory aquaculture practices and tour of aquaculture facility, September 24; 18 participants from Waterford
- R. Rupp: Judge, State Science Fair, Ohio Wesleyan University, Delaware
- L. Schramm: Conference Student Advisor, Ohio Grocers Assn. Conference
- D. Stewart: Treasurer/Registrar, Board Member, Wooster Clergy Academy of Religion, The College of Wooster
Co-presenter, OSU Diversity Colloquy
Member, Wooster Civil Rights/Affirmative Action Committee
- R. Thornton: Judge, Outstanding Junior Exhibitor Memorial Award and Scholarship, Holstein USA, Inc. Ohio Spring Dairy Expo.
- K. Wimbush: Board of Directors, No Boundaries, Wooster
- S. Woods: Panelist, Tech Prep Curriculum Design Workshop, Columbus
Judge, Crops, Wayne County Fair
Judge, Corn show, Baughman Grange, Orrville
- A. Zimmerman: Volunteer energy monitor, Houston Habitat for Humanity
Energy efficiency consultant, Wayne County Habitat for Humanity.
Member, Board of Trustees, Home Energy Ratings of Ohio Foundation
Member, Conference Program Committee, Academic Outreach and Diversity Outreach Task Forces, Affordable Comfort, Inc.
Physics Judge, Mohican District Science Day, Ashland University
Guest speaker, Agricultural Construction and Systems Management Student Club, Department of Food, Agricultural, and Biological Engineering
- T. Zimmerman: Judge, Triway Jr. High Science Fair
Judge, Mohican District Science Day, Ashland University

B. ACADEMIC SERVICE

1. College

- G. Anderson: Member, College Promotion and Tenure Committee
Member, Vice President's Advisory Council.
- R. Borton: Member, College Animal Care
- J. Carr: Member, Student Center Learning Initiative
- M. Headings: Member, Agriculture Faculty Council
Member, College International Programming Team
- L. Houston: Chair, Civil Rights Committee
Member, Student Center Learning Initiative
- J. Lucas: Member, Environmental Safety Committee
- S. Neal: Member, College Land-Use Planning Committee
Member, Swine Extension Education Team member
Member, Organizational committee for Ohio Swine Day
- S. Rahnema: Member, Steering Committee, Project Reinvent
- R. Thornton: Member, Dairy Team
Member, Dairy Farm Employee Short Course planning committee
Member, Dairy Restructuring Team
- A. Zimmerman: Member, Structure Committee, Project Reinvent
Member, Agroecosystems Management Program Team

2. University

- M. Headings: Research Fellow, Center for African Studies
- L. Houston: Regional Campus Advisory Committee for English
- A. Zimmerman: Alternate Member, University Senate/Faculty Council

C. CONSULTATIONS

- G. Anderson: Oasis Floral Products/Smithers-Oasis USA - potential for international schools of floral design in foreign countries.
- J. Carr: Home Builder's Associations (several) - technical support

- K. Cochran: Forest Hill Nursery and Greenhouse - propagation and nursery production
Tom McDowell, Dublin - establishing vegetation at city construction site
Wayne County Administration - plantings at the County Annex Building
Wooster Community Hospital - tree-planting for hospital grounds
- M. Fulton: A businessman - regarding commercial production of sod
- G. Gordon: Owens Community College, Toledo - initial course offerings in newly approved
fluid power option within the Mechanical Engineering Technology program
- L. Houston: Houghton Mifflin - presenter at Developmental English faculty workshops
Longman Publishers-Textbook reviews
Mayfield Publishers-Textbook reviews
- P. Kroll: Ohio AFL-CIO - taught in the annual summer school.
- T. Lanker: Oasis Floral Products/Smithers-Oasis USA - potential for international schools of
floral design in foreign countries.
- R. McMahon: CropKing, Inc. - scheduling/nutritional guidelines for bedding plant crops
- E. Miller: Ohio Department of Agriculture - calculating volumes of non-standard geometric
shapes related to grain inspection
- A. Mokma: Oklahoma State Regents for Higher Education - Program Evaluator for Redlands
Community College, April 14-17
- D. Munn: Delmar Publishers - reviewed a Soil Microbiology Lab Manual
- S. Neal: Cuyahoga Community College - coordinate use of ATI farm laboratory for course
that is a part of the CCC Veterinary Assistant associate degree program
Wayne Co. Swine Committee -county program development
- J. Opliger: Wooster City Schools
A. J. Rose Manufacturing, Cleveland
The College of Wooster
F. J. Designs
LuK, Inc.
Wayne County Schools Career Center.
- S. Rahnema: Buckeye Feed - feed analysis and fish food manufacturing.
Shearer's Foods, Inc. - possibility for use of potato chips in beef
production.
Many inquiries about fish production
- D. Willoughby: Northern Ohio Golf Course Superintendents' Association
Advanced Irrigation - electronics, irrigation and communication
Premier Golf Construction - golf course design and construction

K. Wimbush: Cuyahoga Community College - taught laboratory portion of CCC course

T. Zimmerman: Chair, Wayne Co. GIS Advisory Council
Wayne, Richland, Knox, and Delaware SWCDs - clients needing soil
identification/descriptions for on-lot sewage disposal systems

IV. GRANTS AND CONTRACTS

A. COMPETITIVE GRANTS

1. External proposals submitted and funded

W. Greene: Estrus synchronization GnRH and PGF₂ funded by Select Sires and
Pharmacia & Upjohn; lab analyses provided by Dr. Redman and
associates (OARDC) and products provided by Rhone-Poulenc,
Atlanta, GA.

W. Greene, M. McMahon, and G. Coffing: Electronic moisture testing of hay
funded by New Holland and Farmex,
Inc.

L. Houston and B. Aylsworth: Early English Composition Assessment Program
(EECAP) to work with Tech Prep high school English
teachers. Funded by OBR for Tech Prep.

L. Houston and D. Stewart: Research and classroom instruction about alcohol use on
campus. Funded by the Get Real Alcohol Coalition Mini-
grants from the Ohio State Wellness Center

S. Rahnema: Indoor trout, salmon and perch production trial funded by an
anonymous donor.

Tom Zimmerman: Milkhouse wastewater study funded by the Ohio Environmental
Protection Agency

2. Research, Creative and Other Scholarly (RCOSA) Activity funded internally at ATI

R. Borton and S. Rahnema: Feeding potato chip scraps to hogs.

W. Greene and M. Borger: Estrus synchronization study.

M. Headings: Field research on the Colorado potato beetle.

D Munn: Recycling, reutilization of urban-industry wastes in agriculture--a greenhouse study of ground drywall as an amendment for acid minespoil and greenhouse and field studies comparing steel industry slags to traditional agricultural lime.

A. Zimmerman: Two studies involving personality types (1) of advisory committee members compared to students and faculty and (2) of golf course superintendents.

3. Proposals not funded

L. Houston: Binge Drinking Prevention on Ohio Campuses. Denied because we were a two-year college instead of a four-year college.

G. Miller and A. Mokma: Upward Bound program, U.S. Department of Education, awaiting review and decision

B. GIFT ACTIVITY

D. Willoughby: secured \$67,000 of equipment for student instructional purposes.

V. INTERNATIONAL ACTIVITIES

K. Cochran: Developed seminar "The Clematis World", with Dr. Szczepan Marczyński, nurseryman and Clematis expert from Pruszków, Poland.

M. Fulton: Cairo, Egypt, June 12 to July 22, on behalf of the International Executive Service Corps. To assist two different entrepreneurs on growing sod and maintaining lawns, athletic field, and golf courses.

M. Headings: Study tour leader to Haiti to observe living conditions and community development projects, December 27, 1998 - January 3, 1999; 11 participants
Member, College International Programming Team (Phase II of Project Reinvent).

R. McMahon: Worked with a visiting scientist from India, Dr. Reddy, during Spring Quarter on floriculture production.

S. Rahnema: Communicated with the Iranian Ministry of Agriculture and the University of Urumeih, Iran, for possible scientific/good-will tour of Iranian agricultural centers and exchange of faculty and students between ATI and those institutions.

A. Zimmerman: A journal-based orientation course. An invited presentation at the Freshman Year Experience Conference in Dublin, Ireland.

VI. AWARDS AND HONORS

- J. Carr: Outstanding Educator, Great Lakes Region of the Associated Schools of Construction (ASC).
- K. Cochran: Akron Garden Club established the Ken Cochran Internship Scholarship in recognition of service to the club.
- M. Fulton: 1998 Ohio Turfgrass Foundation recognition for Professional Excellence to the Ohio Turfgrass Industry
- G. Gordon: Staff Accredited Instructor by the Fluid Power Society Education Institute; Ohio State ATI is a Key School by the Fluid Power Educational Foundation.
- W. Greene: 1998 National Institute for Staff and Organizational Development (NISOD) Excellence Award.
- 1998 Ohio State College of Food, Agricultural, and Environmental Sciences Teaching Award.
- J. Opliger: National Association for Developmental Education recognition as founding member
- R. Thornton: 1998 Ohio State ATI Outstanding Advisor Award.
- 1998 Ohio State College of Food, Agricultural, and Environmental Sciences Outstanding Advising Award.
- D. Voltz: 1998 Ohio State ATI Distinguished Teaching Award

The Ohio State University



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